

OWNER'S MANUAL

- ASSEMBLY
- OPERATION
- MAINTENANCE
- PARTS LIST

Model Nos.
 138-390A
 138-395A

Rewind ←
ELECTRIC IGNITION ←

8HP., B&S Rewind Start 4 cycle

TRANSMISSION - 3 FORWARD, 1 REVERSE

DIFFERENTIAL - AUTOMOTIVE TYPE

CUTTING WIDTH 30" FLOATING w/ Twin BLADES

TIRES - F - 11" x 4.00

R 15" x 6.00"

BRAKES - DISC

Important:

**Read Safety Rules and
Instructions Carefully**

**30"
RIDING
MOWERS**



LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges under this warranty must be paid by the purchaser unless return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

IMPORTANT

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

Your rotary mower is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—**READ THE OWNER'S MANUAL.**
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
3. Do not carry passengers.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction.
5. Clear work area of objects which might be picked up and thrown by the mower in any direction.
6. Disengage all attachment clutches and shift into neutral before attempting to start engine.
7. Disengage power to attachment(s) and stop engine before leaving operator position.
8. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
9. Before attempting to unclog the mower or discharge chute, stop the engine and be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
10. Disengage power to attachment(s) when transporting or not in use.
11. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
12. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
13. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
14. Stay alert for holes in terrain and other hidden hazards.
15. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
- D. Use counterweight(s) or wheel weights when suggested in owner's manual.
16. Watch out for traffic when crossing or near roadways.
17. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
18. Handle gasoline with care—it is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage—exhaust fumes are dangerous. Do not run engine indoors.
19. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
20. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
21. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
22. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
23. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
24. Do not change the engine governor settings or overspeed the engine.
25. When using the vehicle with mower, proceed as follows:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
 - (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.
26. Check grass catcher bags frequently for wear or deterioration. For safety protection replace only with new bag meeting original equipment specifications.
27. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

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IMPORTANT

After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

The steering wheel and seat, with the necessary hardware, are easily assembled to the machine. On the electric starter models, the battery must be activated and installed as outlined in this section.

FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. RECOMMENDED PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.



CAUTION

Installation of tire to rim:

1. Lubricate tire beads and rim flanges.
2. Do not exceed 30 P.S.I. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

ASSEMBLY

Step 1. Remove the lawn mower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.

Step 2. Place steering wheel over steering shaft.

Step 3. Secure with Belleville washer and hex nut. See figure 2.

Step 4. Press the cap on the steering wheel by hand. See figure 2.



NOTE

Reference to right-hand or left-hand side of machine is from the driver's seat facing forward.

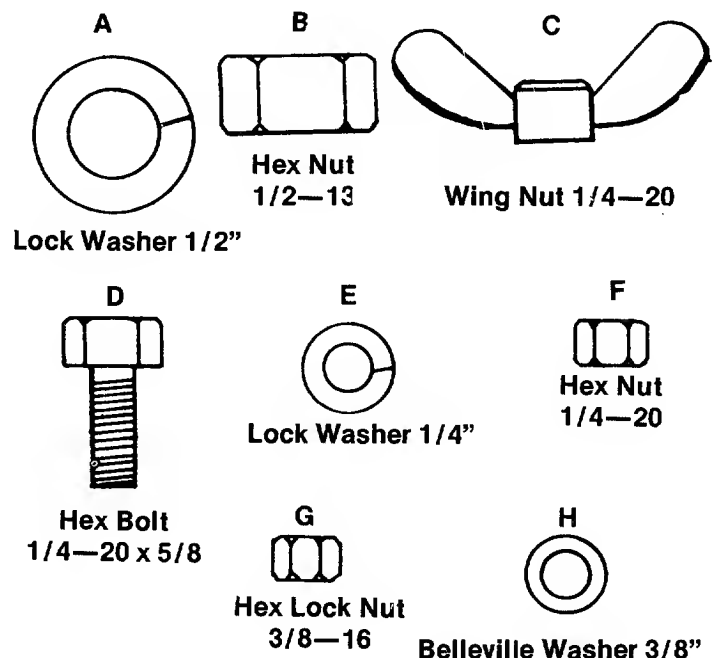


FIGURE 1. HARDWARE SUPPLIED

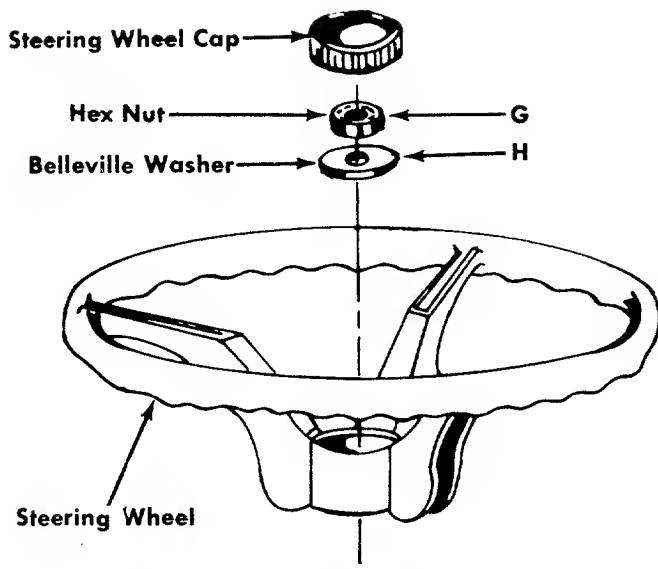


FIGURE 2. STEERING WHEEL ASSEMBLY

Step 5. Your molded seat comes with the mounting bolt molded in the seat.

- A. Select one of three hole locations on seat spring.
- B. Place seat on spring and secure with lockwasher (A) and hex nut (B). See figures 1 and 3.

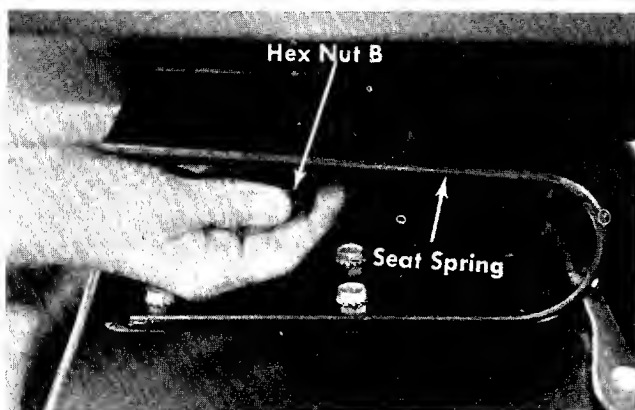


FIGURE 3. SEAT ASSEMBLY



NOTE

Check all nuts and bolts for correct tightness.

BATTERY INFORMATION FOR ELECTRIC START MODELS



WARNING

- A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.

- B. Neutralize acid spilled on clothing with dilute ammonia water or a water solution of baking soda. If acid gets on clothes, dilute it with clean water first, then neutralize.
- C. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.
- D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.



DANGER

BATTERIES CONTAIN SULFURIC ACID MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added)

- A. Keep sparks, flame, cigarettes away.
- B. Hydrogen gas is generated during charging and discharging.
- C. Ventilate when charging or using in enclosed space.
- D. When using a charger—to avoid sparks—NEVER connect or disconnect charger clips to battery while charger is turned on.
- E. Always shield eyes, protect skin and clothing when working near batteries.

A. Activating the Battery

1. Place battery to be filled on bench or workbench. NEVER activate battery in unit. Remove vent caps from all cells.
2. Fill each cell carefully using battery grade 1.250—1.265 specific gravity. Sulfuric acid to be 3/8" above the top of the separators or to the split ring.
3. Allow battery to set for 20 minutes to 1/2 hour. Add additional acid if necessary to bring it up to the proper level.
4. Replace the vent caps.
5. The battery can now be charged after the 20 minutes setting period. Battery can be SLOW CHARGED (DO NOT FAST CHARGE) at a maximum bench rate of 4-5 amperes until the specific gravity reading is 1.265—1.275. A charging rate in excess of this will buckle and warp the positive plates and perforate the separators. If electrolyte bubbles violently while charging, reduce charging rate until excessive bubbling action subsides, then continue charging until specific gravity is reached.



CAUTION

After the battery has been in service, add only approved water. **DO NOT ADD ACID.**

B. To Install Battery

To install the battery in this unit, refer to next column.

C. Maintenance

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is 9/16" above separator plates. Add only distilled water or good quality drinking water. **NEVER** add additional acid or other chemicals to battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225 remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

D. Storage

1. Charge battery using normal methods. **NEVER** store discharged battery as it will not recover.
2. Store in cold, dry place.
3. Recharge battery whenever the specific gravity is less than 1.225 before returning to service or every two months, whichever occurs first.

E. Common Causes for Battery Failure Are:

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte



NOTE

THESE FAILURES DO NOT CONSTITUTE WARRANTY.

LIMITED WARRANTY

For ninety (90) days of original retail purchase, the battery carries a limited warranty against faulty material or workmanship by the battery manufacturer.

INSTALL THE BATTERY

- A. Open the hood of the mower.
- B. Place the battery with the terminals to the **FRONT** in the battery case. See figure 4.
- C. Hook both hold-down rods under the battery case and place the hold down over the battery caps and secure with wing nuts D.



CAUTION

Be sure the flared edge of the hold down is facing up to avoid damage to the battery.

- D. Attach the free end of the positive cable and the small wire from the ammeter, to the positive battery terminal with bolt E, washer F and nut G. The battery terminal is marked +.
- E. Attach the free end of the negative cable to the negative terminal with bolt E, washer F and nut G. Battery terminal is marked -.

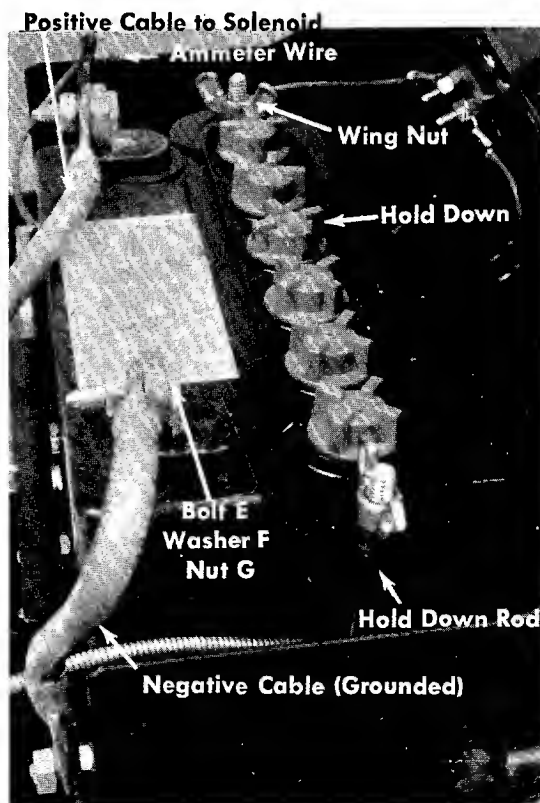


FIGURE 4. INSTALLING THE BATTERY

CONTROLS (See figure 5.)

This manual should be read in its entirety before you operate your Riding Mower. The more you know and understand about the machine and its operation, the better job it will do for you. While reading the manual, compare the illustrations with your mower to familiarize yourself with the locations of various controls, lubrication points, attachments and adjustment features.

Study the operating instructions and safety precautions thoroughly to insure proper functioning of your mower and to prevent injury to yourself and others. Be sure to save this manual for future reference.

THROTTLE CONTROL

The throttle control is used to regulate the engine speed and to activate the choke on the engine. To get maximum efficiency from cutting, the throttle should be in the FAST position when operating the mower. Pushing the throttle all the way forward, past FAST will choke the engine. See figure 5.

IGNITION KEY

Recoil Model. The key must be turned to the ON position before you pull the recoil handle to start the engine. Remove the key when the mower is not in use. Turn the key to the left to the OFF position to stop the engine. See figure 10.

Electric Model. The key must be turned to the START position to start the engine. After the engine is running let the key return to the ON position. Remove the key when the mower is not in use. Turn the key to the OFF position to stop the engine. See figure 5.

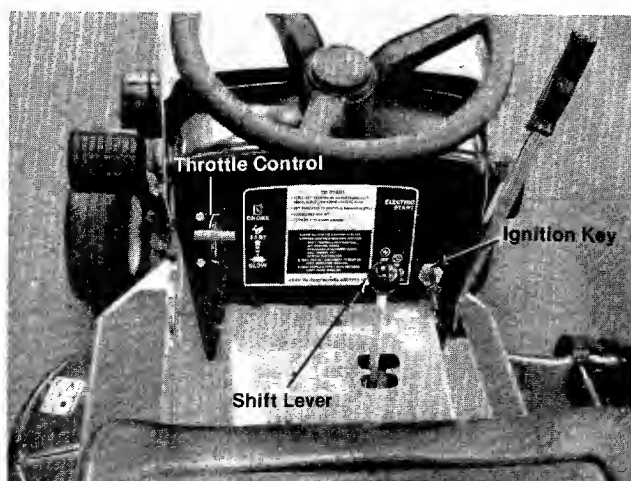


FIGURE 5. CONTROLS

INTERLOCKS (Not Shown)

An interlock safety switch is located on the clutch pedal and the lift and disengagement lever.

The clutch pedal must be depressed all the way down and can be locked and the lift and disengagement lever must be in the disengaged position before the engine can be started.

On the recoil start model, the ignition will be grounded and on the electric start model, the starter will not run.

BRAKE

The brake pedal is located on the right hand side of the mower and is operated by depressing it with your right foot. See figure 6.

BRAKE LOCK

The brake lock is located on the right hand side of the mower. To lock the brake, depress the brake pedal and lift up the lock button. The pedal will stay depressed. To release, depress the brake pedal. Always lock the brake when you park the mower. See figure 6.

CLUTCH

The clutch pedal is located on the left hand side of the mower and is operated with your left foot. Depress the pedal to disengage the drive mechanism. Release the clutch slowly to engage. The clutch and brake pedals must both be depressed when stopping the mower. When shifting gears, the clutch pedal must be disengaged and the mower cannot be moving. See figure 7.

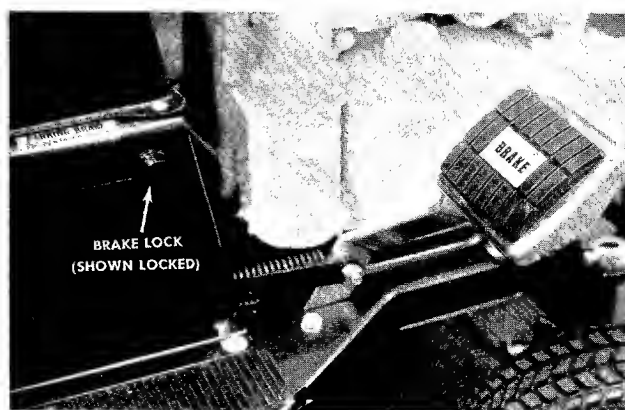


FIGURE 6. BRAKE AND BRAKE LOCK

CLUTCH LOCK

When the clutch pedal is depressed all the way it can be locked by lifting up the lock button. The pedal will stay depressed. To release, depress the pedal. See figure 7.



The clutch pedal must be depressed to start the engine.

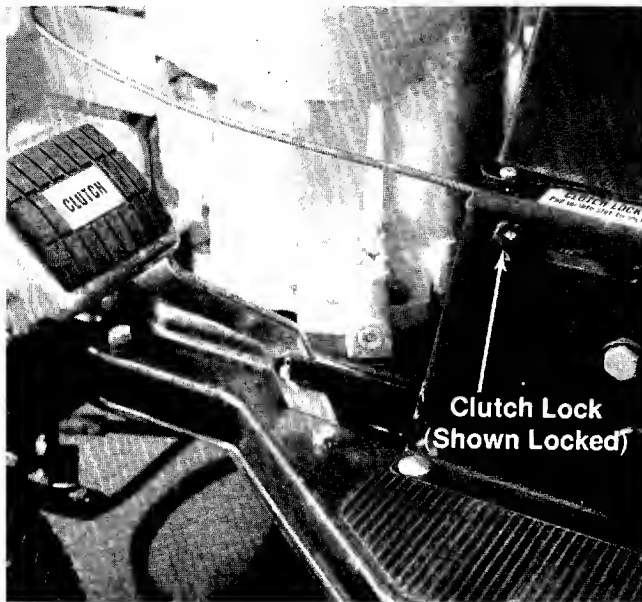


FIGURE 7. CLUTCH AND CLUTCH LOCK

GEAR SHIFT LEVER

Three Speed—The three speed transmission has three forward speeds, neutral and reverse. The clutch pedal must be depressed to shift gears. It may be necessary to release the clutch pedal slightly to shift the gear shift lever. Do not force the shift lever.

1st Gear—Heavy Cutting
2nd Gear—Medium Cutting
3rd Gear—Medium Cutting
N—Neutral
R—Reverse

See figures 5 and 8.

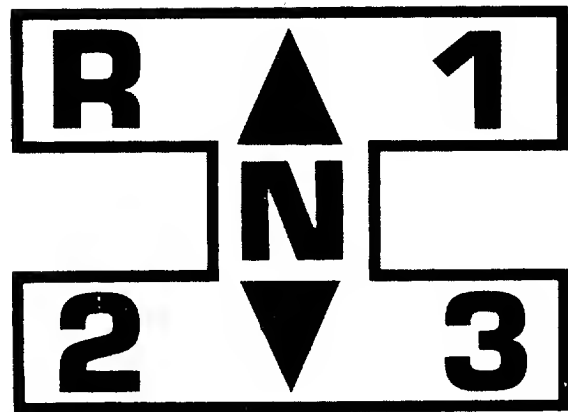


FIGURE 8. THREE SPEED TRANSMISSION

RECOIL STARTER HANDLE

The recoil starter handle is located on the right side of the dashboard. The recoil starter handle can either be pulled while seated on the rider or pulled while standing behind the rider. The ignition key must be on before the engine will start. After the engine starts, the recoil starter handle must be returned and locked into the dashboard before the blade or clutch are engaged. The engine will stop if you do not follow these instructions. See figure 9.

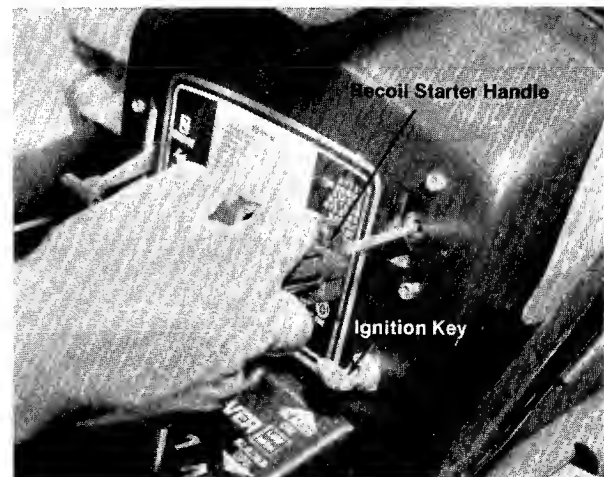


FIGURE 9. RECOIL STARTER

LIFT AND DISENGAGEMENT LEVER

It is used to raise the cutting deck. Pulling it all the way back and locking it disengages the blade.



FIGURE 10. HEIGHT OF CUT SETTINGS



The engine will not start unless the lift and disengagement lever is in the disengaged position. See figure 10.

CUTTING CONTROLS

The cutting controls consist of the height of cut stop and the wheel height adjusters.

Height of Cut Stop. See figure 10. Lift the stop and set it at the desired cutting height. Allow the lift and disengagement lever to come forward to rest against the height of cut stop.

Wheel Height Adjuster. Move the lever towards the wheel and set it in the desired cutting height position. See figure 11. Both wheels must be in the same relative position.

SETTING THE CUTTING HEIGHT

The cutting height of the mower can be set in two different ways: Full Float position where the deck follows the contour of the ground, and the Suspended position where the deck hangs from the frame of the rider. The suspended position is normally used for cutting rough uneven ground.

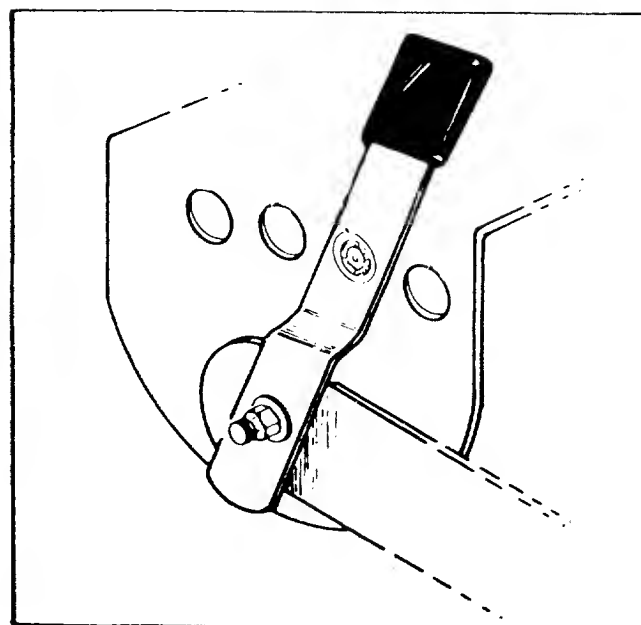


FIGURE 11 WHEEL HEIGHT ADJUSTER

To set the cutting deck in the full float position: set the wheel height adjusters in the desired cutting height as indicated in figure 11. Set height of cut stop in the lowest position. See figure 10.

To set the cutting deck in the suspended position: set the height of cut stop in the desired cutting height and then set the deck wheel so they just clear the ground.



Parking Brake **must** be disengaged before unit is put into motion.



Unit is equipped with separate brake and clutch pedals. To efficiently stop, it is necessary to disengage clutch when applying brakes.

OPERATING INSTRUCTIONS



CAUTION

1. Keep all shields and guards in place.
2. Before leaving operator's position:
 - Shift controls into neutral
 - Set parking brake
 - Disengage attachment drive
 - Shut off engine
 - Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.

STARTING THE ENGINE

1. Be sure the crankcase is filled with oil as recommended in the engine manual and put regular gasoline in the gasoline tank.
2. If the engine is equipped with a fuel shut off valve, be sure it is open.
3. Attach the wire to the spark plug.
4. Depress the clutch pedal and lock it down with the speed control lever.
5. Move the lift and disengagement lever backward to the disengaged position and lock it.
6. Set the throttle control lever in the CHOKE position.
7. **Recoil Model.** Turn the ignition key to the ON position, twist the recoil starter handle until it is free and pull it with a quick steady motion. After the engine starts, return the recoil starter handle and twist it until it locks. See figures 9 and 12.



NOTE

The engine will stop when clutch or blades are engaged if this procedure is not followed.

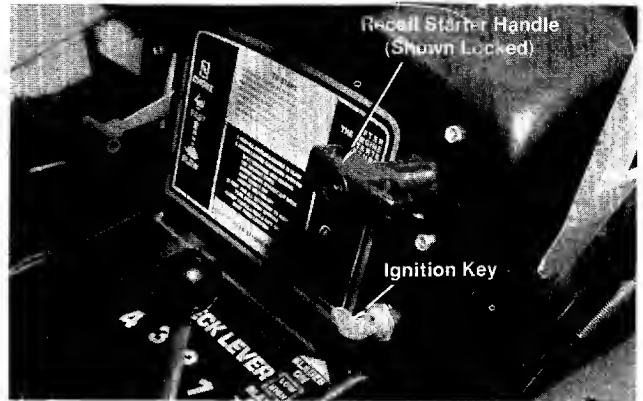


FIGURE 12. RECOIL STARTER

Electric Start Model. Turn the ignition key to the START position. As soon as the engine starts let the key return to the ON position. See figure 5.

Slowly return the throttle to the running position as soon as the engine starts.

8. To stop either model, turn the ignition key to the OFF position and remove the key when the unit is not in use.

PUTTING THE RIDER IN MOTION

1. Advance the throttle control from $\frac{3}{4}$ to full throttle to prevent strain on the engine and to operate the cutting blades.
2. Depress the clutch pedal so the clutch lock releases.
3. Place the gear shift lever in the number 1 position on the three speed unit.
4. Slowly release the clutch pedal.
5. To stop the unit, depress the clutch pedal and the brake pedal.
6. The blade can be engaged either while moving or while standing still. Move the lift and disengagement lever forward slowly until the blade is running.



NOTE

As you become more familiar with the four speed transmission, stop the unit and shift into a higher gear.

STOPPING

Engine—Turn the ignition key to the left to the OFF position.

Rider—Depress the clutch and brake pedals.

Blades—Move the lift and disengagement lever all the way to the rear and lock it.

MAINTENANCE

CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Check oil level before starting engine and after every 5 hours of operation. Be sure oil level is maintained to **FULL POINT OF OVERFLOWING** or to **FULL MARK** on dipstick.

Change Oil after first 5 hours of operation. Thereafter change oil every 25 hours of operation. Remove oil drain plug and drain oil while engine is warm. Replace drain plug. Remove dipstick or filler plug and refill with new oil of proper grade. Replace dipstick or plug.

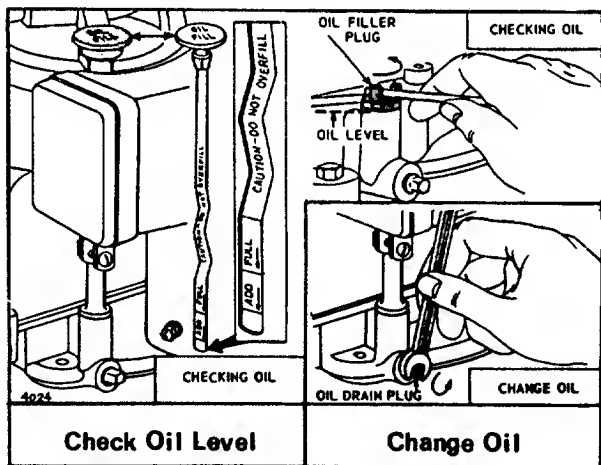


FIGURE 13. CHECKING OIL



NOTE

To insure safe operation, ALL nuts and bolts must be checked periodically for correct tightness.

MOWER DECK

The underside of the mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next mowing.

The deck may be cleaned by tilting the mower on its rear wheels. Scrape clean with a suitable tool or by washing with a stream of water from a garden hose.

Be sure to disconnect the spark plug wire and ground it while performing this maintenance.

BLADES



WARNING

Disconnect the spark plug wire and remove the ignition key before removing the blades.

Sharp and balanced blades are essential for efficient mowing and long mower and engine life. When sharpening blades, file equal amounts of metal from each side. The blades should be balanced before they are reinstalled. An unbalanced blade will cause excessive vibration and undue wear on the mower and the engine. When reassembling, all parts must be installed in the proper order and fastened securely.

Remove the 3/8" bolt and lockwasher. Pull the blade and adapter off the mower deck. To remove the adapter from the blade, remove the two 5/16" bolts, lockwashers and nuts. See figure 14.

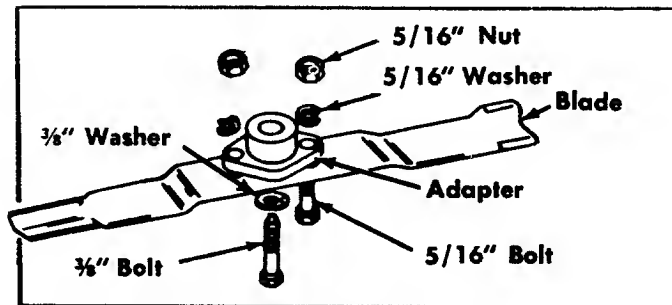


FIGURE 14. BLADE REMOVAL

BRAKE ADJUSTMENT See figure 16.

To adjust the brake tighten the locknut one half turn and then test the brakes. After attaining the proper adjustment, replace the cotter pin.

The brake is located by the right rear wheel inside the frame.

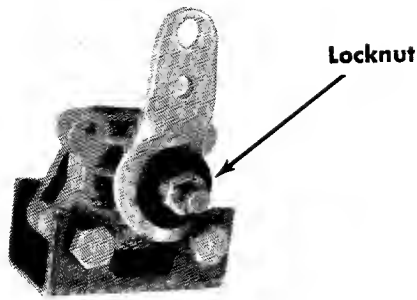


FIGURE 15. BRAKE ADJUSTMENT

CHAIN ADJUSTMENT

After the first five hours of operation the initial slack should be removed from the chain. The chain should be tight enough so that it deflects approximately $\frac{1}{2}$ " when it is depressed with the thumb.

To tighten the chain, loosen the two locking nuts on each side of the rear axle.

Tighten the adjusting nuts until the proper chain tension is obtained.

Tighten the locking nuts on the rear axle. See figure 17.

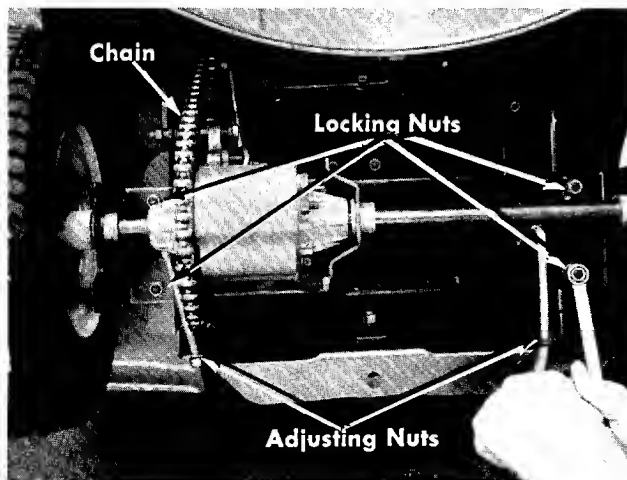


FIGURE 16. CHAIN ADJUSTMENT

LUBRICATION

1. Front Wheel Bearings (4). Lubricate with SAE 30 oil once a season or after every 25 hours of operation. See figure 17.
2. King Pin Bearings (4). Lubricate with SAE 30 oil once a season or after every 25 hours of operation. See figure 17.
3. Steering Gears. Lubricate the two gears with automotive multi-purpose grease once a season. See figure 18.

4. Pivot Bolt. Lubricate with SAE 30 oil once a season. See figure 17.
5. Deck Wheel Bearings (4). Remove the axle bolt and lubricate with multi-purpose automotive grease once a season or after every 25 hours of operation. See figure 19.
6. Differential. Lubricated at the factory with 2 ounces of high temperature grease (450°F.). The grease should only be checked or replaced if the differential is disassembled for repair. See figure 20.
7. Transmission. Lubricated at the factory with 12 ounces of E.P. Lithium grease. The grease should only be checked or replaced if the transmission is disassembled for repair.

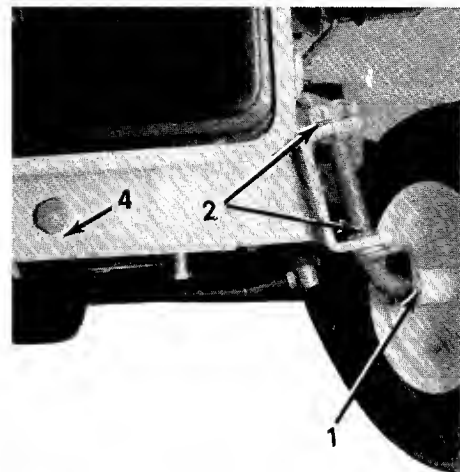


FIGURE 17

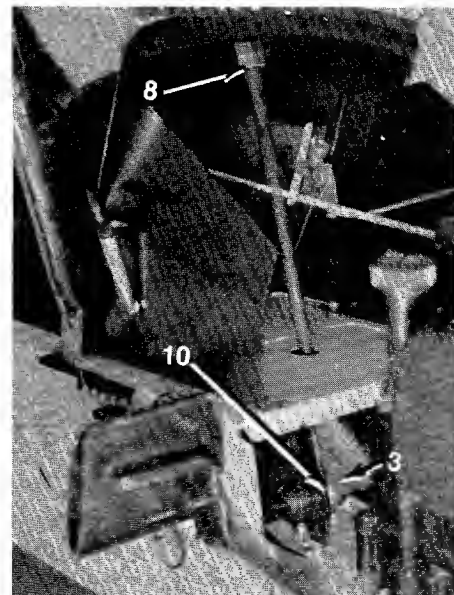


FIGURE 18

8. Steering Column Bearings (2). Oil once a season with SAE 30 oil. See figure 18.
9. Rear Axle Bearings (3). Requires no lubrication. See figure 20.
10. Steering Shaft Bearings (2). Requires no lubrication. See figure 18.
11. Chain. Remove and clean with kerosene. Lubricate with an oil soaked rag. See figure 20.

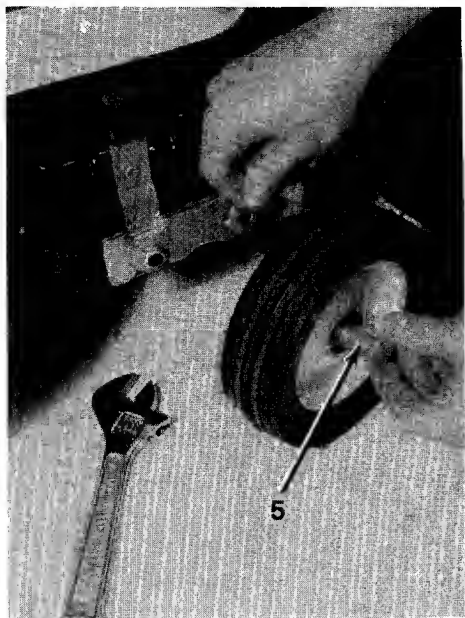


FIGURE 19



WARNING

Do not get oil on the sprocket or brake pads.

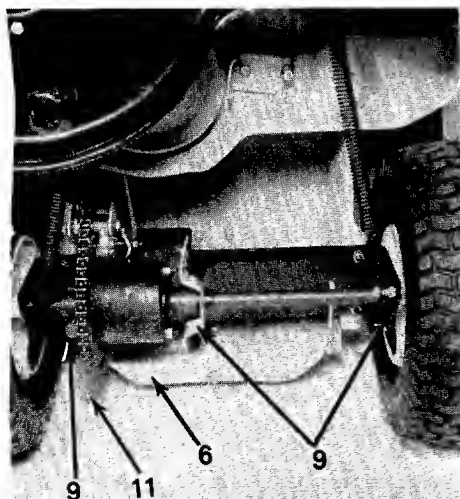


FIGURE 20

The following items have sealed bearings and require no further lubrication.

Blade Spindle Bearings
Tie Rod Ends
Idler Bearings

BELTS REMOVAL AND REPLACEMENT



WARNING

Before up-ending vehicle for maintenance, position it on a hard level surface and ensure area is clear of children and pets.

Disconnect the spark plug wire and ground it against the engine.

To prevent gasoline from leaking from the gasoline tank, remove the cap, place a piece of plastic film over the neck of the tank and screw on the cap or drain tank.

1. Put the lift lever in the disengaged position.
2. Remove the belt keeper and shoulder bolt on the engine pulley. See figure 21.
3. Remove the blade belt from the engine pulley.
4. Put the lift lever in the engaged position.
5. Remove the two tension springs on the rear of the deck.
6. Remove the six pins holding the deck to the frame. See figure 22.
7. Lift off the deck and set it aside.

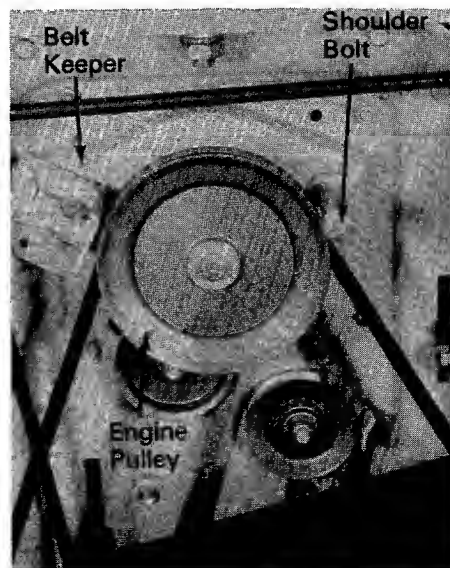


FIGURE 21

BLADE BELT See figure 23.

1. Take off both belt guards on the deck.
2. Remove and replace the belt with a new one.

TRANSMISSION BELT See figure 22.

1. Remove the engine belt guard from the engine pulley by removing the two front engine bolts.
2. Remove the two belt guards from the transmission pulley.
3. Remove the V-idler pulley.
4. Remove and replace the transmission pulley.

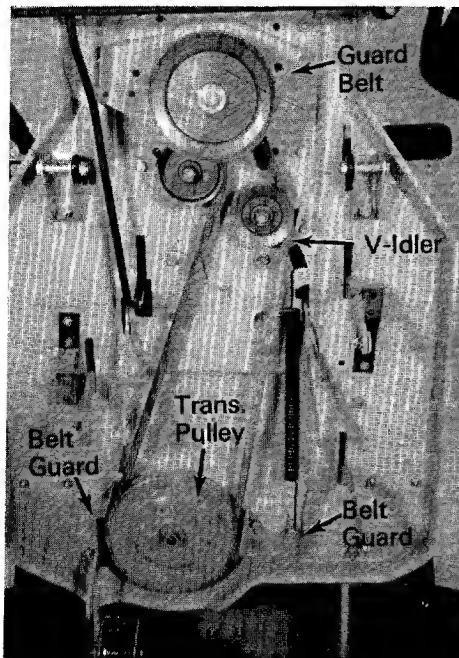


FIGURE 22

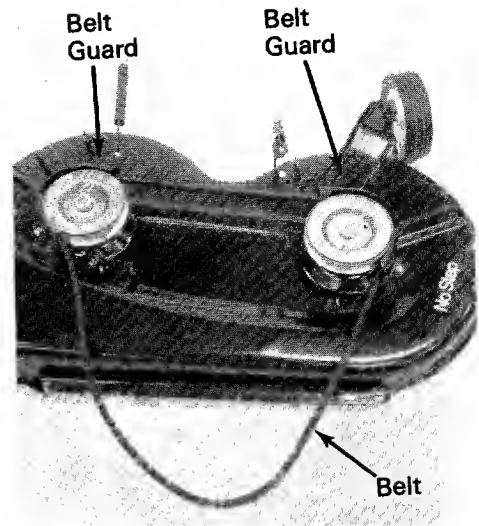


FIGURE 23

TROUBLE SHOOTING CHART FOR RECOIL START MODELS

CAUTION: ALWAYS DISCONNECT SPARK PLUG BEFORE ATTEMPTING ANY REMEDY.

TROUBLE	LOOK FOR	REMEDY
Engine fails to start.	Safety System	<p>If the engine will not start be sure the clutch control is disengaged; blade controls disengaged, the throttle control is set and the key is turned on.</p> <p>A. Disconnect the yellow wire from the engine. This comes from the ignition switch.</p> <p>B. If the engine fails to start the problem is with the engine, not the safety system.</p> <p>C. If the engine starts, the problem is with the safety system. Check the yellow wire for a ground.</p> <p>D. Check the operation of the switch behind the recoil starter handle.</p> <p>E. If the engine stops when the clutch or blade is engaged, the recoil handle is not pushed into the receptacle and twisted a quarter turn.</p>
	Blocked fuel line or empty gas tank.	Clean fuel line; check fuel supply. Also check fuel shut-off valve.
	Defective spark plug.	<p>Spark plug lead wire disconnected.</p> <p>Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug.</p> <p>NOTE: Use insulated pliers to hold the spark plug wire.</p>
	Throttle setting.	Throttle control lever not in the starting position.
	Loose connections.	Spark plug wire loose.
Hard starting or loss of power.	Dirty air cleaner.	Remove air cleaner and clean as outlined in Engine Manual .
	Carburetor improperly adjusted.	Review paragraph Carburetor Adjustment .
Excessive vibration.	Bent or damaged blade spindle.	Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to discharge grass.	Discharge chute clogged.	Clean discharge chute and inside of deck.
	Foreign object lodged in deck.	Remove object from deck. See CAUTION following step 1 in paragraph Operation .
Engine overheats.	Obstructions in air passages.	Remove any obstruction from air passages in shroud. Grass and dirt in engine shroud. Clean cooling fins.
	Oil level.	Fill crankcase to proper oil level.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine fails to start.	Safety System	<p>A. Check for a blown fuse in the wire leading from the positive terminal of the battery.</p> <p>B. Before checking the safety system further, be sure the clutch control and the blade control are disengaged; only the starting system is being checked. Therefore remove the spark plug lead and ground it to prevent the engine from starting.</p> <p>C. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal (coil primary) of the solenoid. If the engine cranks, the problem is in the safety system.</p> <p>D. Check for continuity from the battery to the solenoid. NOTE: The positive terminal of the battery should have a large cable (#8 gauge) and a small wire (#18 gauge) attached to it.</p> <p>E. Check all wires and cable for tightness.</p> <p>F. Use a #8 gauge wire and jump between the two large terminals of the solenoid. If the unit starts, replace the solenoid.</p> <p>G. If the unit fails to start after following the above procedure the problem is probably in the starting motor of the engine.</p>
	Blocked fuel line or empty gas tank.	Clean fuel line; check fuel supply. Also check fuel shut-off valve.
	Defective spark plug.	<p>Spark plug lead wire disconnected.</p> <p>Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug.</p> <p>NOTE: Use insulated pliers to hold the spark plug wire.</p>
	Throttle setting.	Throttle control lever not in the starting position.
	Loose connections	Spark plug wire loose.
Hard starting or loss of power.	Dirty air cleaner.	Remove air cleaner and clean as outlined in Engine Manual .
	Carburetor improperly adjusted.	Review paragraph Carburetor Adjustment .
Excessive vibration.	Bent or damaged blade spindle.	Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to discharge grass.	Discharge chute clogged.	Clean discharge chute and inside of deck.
	Foreign object lodged in deck.	Remove object from deck. See CAUTION following step 1 in paragraph Operation .
Engine overheats.	Obstructions in air passages.	Remove any obstruction from air passages in shroud. Grass and dirt in engine shroud. Clean cooling fins.
	Oil level.	Fill crankcase to proper oil level.

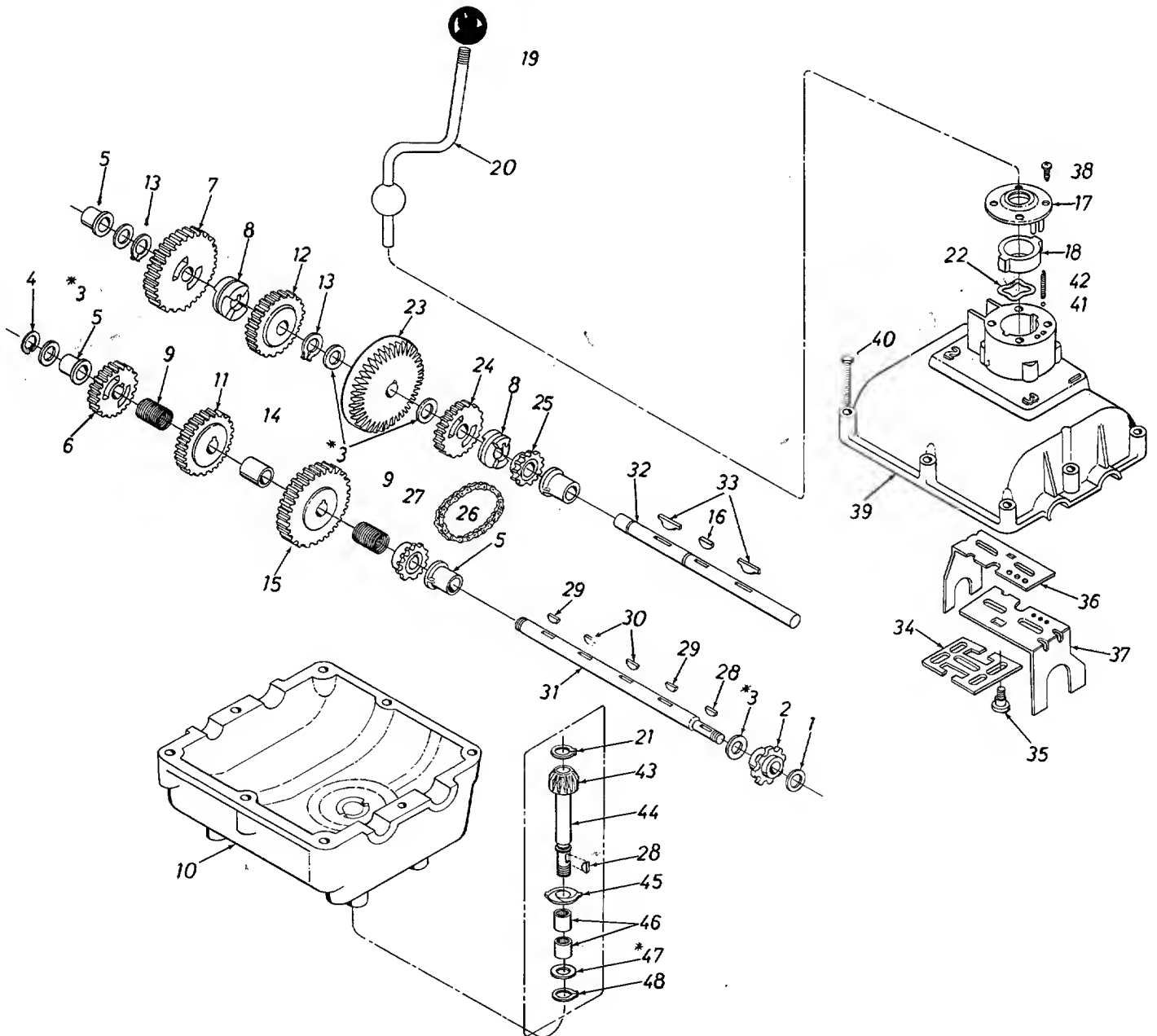
BELT TROUBLE SHOOTING CHART

Failure	Probable Cause	Corrective Action
1 Broken Belt	1A Sudden stop or shock load to belt	1A Inspect rider for cause such as foreign objects stuck in between deck and frame or belt path. Remove obstruction and inspect for damage. Replace belt per parts list in this manual.
	1B Incorrect belt used	1B Replace with proper belt only. See parts list in this manual. Roll belt onto pulley. Do not use a screw driver to push or pry belt onto pulley. The sharp bend can damage internal cords.
	1C Abrupt engagement	1C Slower engagement required.
	1D Defective or damaged belt	1D Refer to 1B.
2 Belt Shreds	2A Belt guides or guards incorrectly adjusted	2A Belt guides and guards should be adjusted to approximately 1/16 to 1/8 inch from belt when in the engaged position.
	2B Pulleys not aligned	2B Realign pulleys to be within approximately 1/16 inch of each other. Check with straight edge. Be sure fastening hardware is tight.
	2C Bad pulley—rough, rusty chipped, bent, frozen bearing, etc.	2C Replace as necessary. Adjust as per 2B.
3 Belt Comes Off	3A Belt stretched	3A Adjust as necessary when applicable. Refer to 1B.
	3B Broken or weak idler spring	3B Replace.

Foot Foundation

**138-390A
138-395A**

ILLUSTRATED PARTS FOR TRANSMISSION 717-0323



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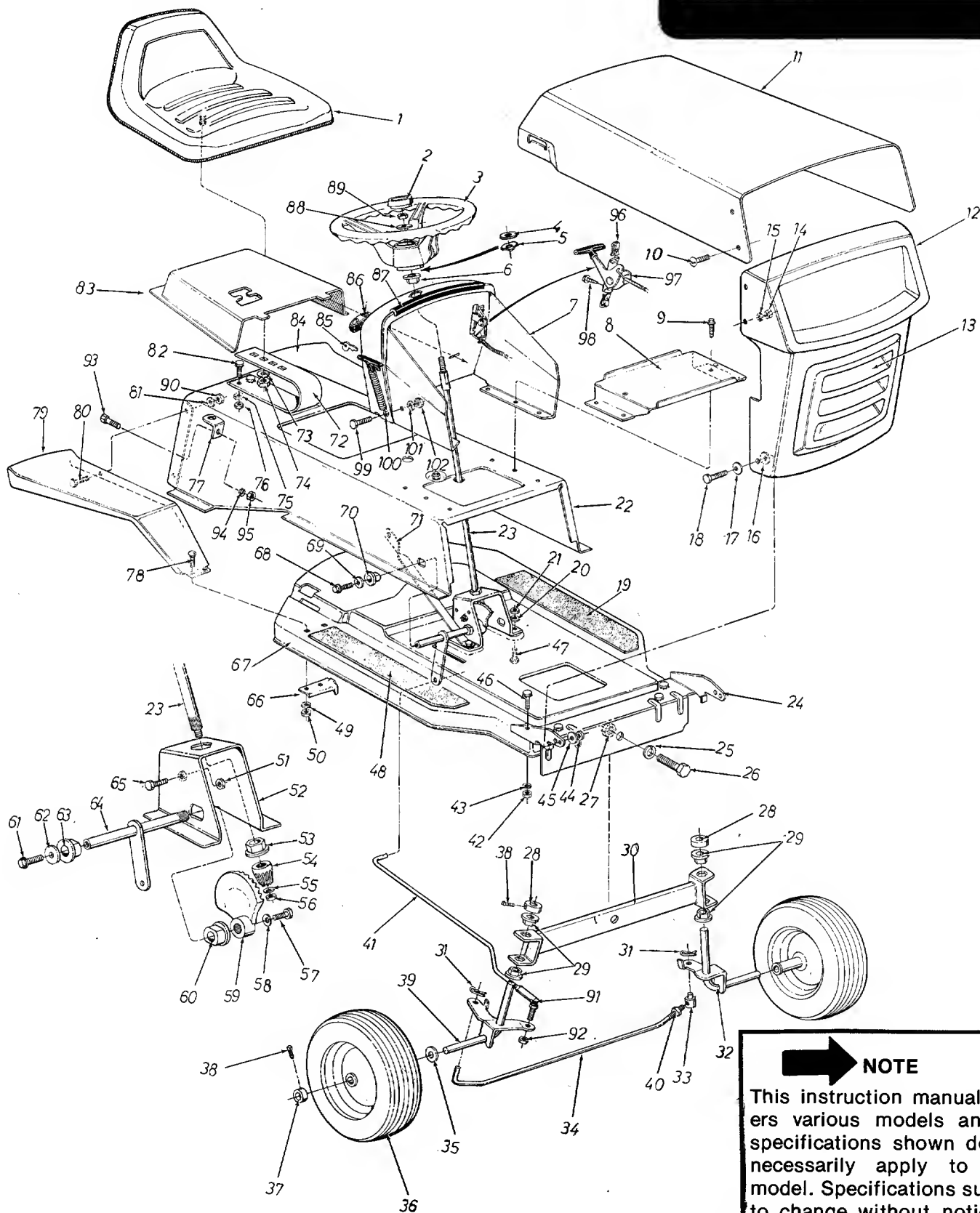
PARTS LIST FOR TRANSMISSION MODEL NO. 717-0323

REF. NO.	PART NO.	Qty. Req'd.	DESCRIPTION
1	FF-1300	1	Ring, Retaining
2	FF-1129	1	Sprocket, 8 T
3	FF-1068	*	Washer, Plain (.040)
3	FF-1082	*	Washer, Plain (.031)
3	FF-1145	*	Washer, Plain (.060)
3	FF-1358	*	Washer, Plain (.050)
3	FF-1423	*	Washer, Plain (.025)
3	FF-1424	*	Washer, Plain (.035)
3	FF-1425	*	Washer, Plain (.045)
3	FF-1441	*	Washer, Plain (.020)
4	FF-1106	1	Ring, Retaining
5	FF-1101	4	Bearing, Flange
6	FF-1072	1	Gear, Spur 20T
7	FF-1444	1	Gear, Spur, 30T
8	FF-1083	2	Collar, Clutch
9	FF-1095	2	Spring, Compression
10	FF-1064-A	1	Housing, Lower
11	FF-1076	1	Gear, Spur, 25T
12	FF-1075	1	Gear, Spur, 25T
13	FF-1099	2	Ring, Retaining
14	FF-1325	1	Spacer
15	FF-1078	1	Gear, Spur, 30T
16	FF-1374	1	Key, Wdr., No. 9 Alloy
17	FF-1670	1	Cover, Nylon
18	FF-1091	1	Insert, Nylon
19	FF-1318	1	Knob, Shift
20	FF-2683	1	Assembly, Lever, Shift
21	FF-1100	1	Ring, Retaining
22	FF-1096	1	Washer, Wave
23	FF-1085	1	Gear, Bevel, 42T
24	FF-1071	1	Gear, Spur, 20T
25	FF-1087	1	Sprocket, 12T, Special
26	FF-1090	1	Chain
27	FF-1104	1	Sprocket, 12T, Special
28	FF-1371	2	Key, Wdrf., No. 4 Alloy
29	FF-1369	2	Key, Wdrf., No. 3 Alloy
30	FF-1375	2	Key, Wdrf., No. 61 Alloy
31	FF-1094	1	Shaft, Output
32	FF-1443	1	Shaft, Drive
33	FF-1086	2	Key, Hi-Pro, Special
34	FF-1074	1	Plate, Lock-out
35	FF-1073	4	Screw, Shoulder
36	FF-1657	1	Fork, Shifter, R.H.
37	FF-1070	1	Fork, Shifter, L.H.
38	FF-1357	4	Screw, No. 10-24 x 1/2
39	FF-1065-J	1	Housing, Upper
40	FF-1360	8	Bolt, Hx. Hd., 1/4-20 x 1-5/16
41	FF-1037	2	Ball, Detent
42	FF-1475	2	Spring, Detent
43	FF-1105	1	Pinion, Bevel, 16T
44	FF-1747	1	Shaft, Input
45	FF-1499	1	Washer, Thrust
46	FF-1102	2	Bearing, Needle
47	FF-1430	*	Washer, Plain (.040)
47	FF-1431	*	Washer, Plain (.050)
47	FF-1760	*	Washer, Plain (.015)
48	FF-1491	1	Ring, Retaining

*Indicates used in various combinations to maintain proper clearances.

138-390A 138-395A

IF YOU WRITE TO US ABOUT THIS ARTICLE
OR IF YOU ORDER REPLACEMENT PARTS AL-
WAYS MENTION THIS MODEL & SERIAL NO
MODEL



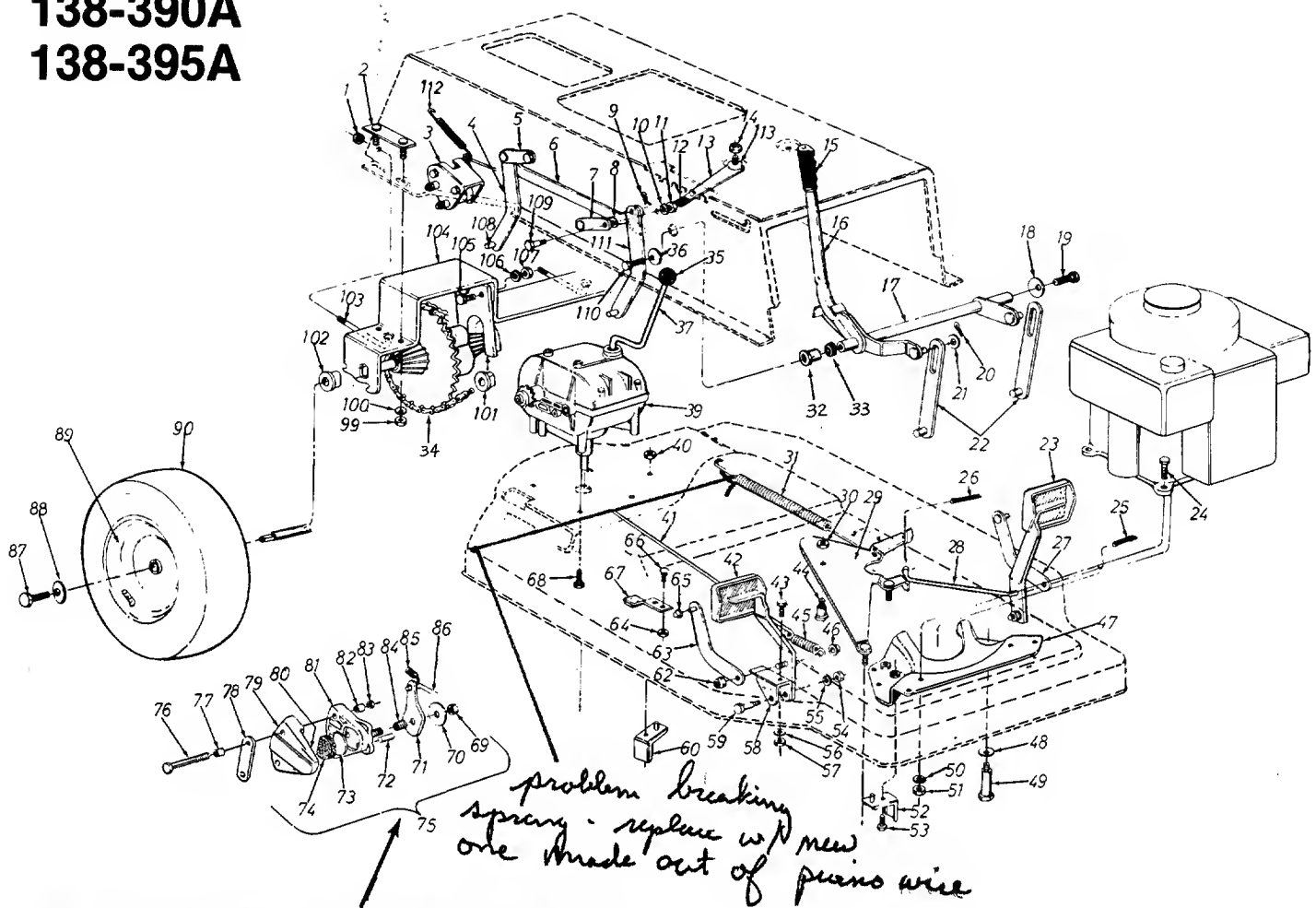
NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

PARTS LIST FOR RIDING MOWER MODELS 138-390A AND 138-395A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	757-0264		Seat Assembly		50	712-0287		Hex Nut 1/4-20 Thd.*	
2	731-0220		Cap for Steering Wheel		51	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
3	731-0219		12" Dia. Steering Wheel		52	12850		Steering Gear Shaft Ass'y.	
4	736-0156		FI-Wash. .635 I.D. x 1.120 O.D.		53	748-0228		Hex Flange Brg. .505 I.D.	
5	736-0174		Wave Wash. .66 I.D. x .88 O.D.		54	748-0237		Pinion Gear	
6	748-0227		Hex Flange Brg. .630 I.D.		55	736-0242		Belleville Wash.	
7	12740		Dash Panel Ass'y.—Recoil (390A)		56	712-0237		Hex Cent. L-Nut 5/16-24 Thd.	
	12742		Dash Panel Ass'y.—Elect. (395A)		57	710-0180		Hex Scr. 3/8-24 x .75" Lg.*	
8	12747		Battery Bracket (395A)		58	736-0105		Belleville Wash.	
9	710-0198		Hex Sems Scr. 5/16-18 x .75 Lg.*		59	748-0236		Bevel Gear	
10	710-0255		Truss Mach. Scr. 1/4-20 x .75" Lg.*		60	741-0199		Plastic Flanged Brg.	
11	11836 —463		Hood		61	710-0325		Hex Scr. 3/8-24 x .50" Lg.*	
12	719-0194		Grille—Complete		62	736-0105		Belleville Wash.	
13	731-0208		Grille Insert		63	741-0199		Plastic Flanged Brg.	
14	712-0287		Hex Nut 1/4-20 Thd.*		64	12749		Steering Arm Shaft Ass'y.	
15	736-0329		L-Wash. 1/4" Scr.*		65	710-0670		Hex Scr. Nylon 3/8-16 x 1.25" Lg.	
16	736-0105		Belleville Wash.		56	11055		Transmission Belt Guard	
17	736-0105		Belleville Wash.		67	12757 —463		Lower Frame	
18	710-0216		Hex Scr. 3/8-16 x .75" Lg.*		68	710-0325		Hex Scr. 3/8-24 x .50" Lg.*	
19	723-0305		Foot Mat—L.H.		69	736-0105		Belleville Wash.	
20	736-0119		L-Wash. 5/16" Scr.*		70	741-0199		Plastic Flanged Brg.	
21	712-0267		Hex Nut 5/16-18 Thd.*		71	12934		Transmission Support Brkt.	
22	12802 —463		Upper Frame		72	732-0256		Seat Spring 3.25 High	
23	738-0307		Steering Shaft		73	736-0921		L-Wash. 1/2" Scr.*	
24	12746 —463		Front Pivot Bracket		74	712-0206		Hex Nut 1/2-13 Thd.*	
25	736-0158		L-Wash. 5/8" Scr.*		75	736-0119		L-Wash. 5/16" Scr.*	
26	710-0312		Hex Scr. 5/8-18 x 1.31 — Special		76	712-0267		Hex Nut 5/16-18 Thd.*	
27	712-0923		Hex Cent. Jam Nut 5/8-18 Thd.		77	09963 —463		Hitch Bracket	
28	711-0169		Collar for a 5/8" Dia.		78	710-0255		Truss Mach. Scr. 1/4-20 x .75" Lg.*	
29	748-0227		Hex Flange Brg. .630 I.D.		79	11002 —463		Rear Fender	
30	12415 —463		Pivot Bar Ass'y.		80	710-0195		Hex Scr. 1/4-28 x .62" Lg.*	
31	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*		81	736-0329		L-Wash. 1/4" Scr.*	
32	12752 —463		Axle Ass'y.—Front—L.H.		82	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
33	711-0198		Ferrule		83	12932 —463		Transmission Panel	
34	747-0144		Tie Rod		84	11002 —463		Rear Fender	
35	736-0156		FI-Wash. .635 I.D. x 1.120 O.D.		85	725-0201		Ignition Key Only	
36	734-0488		Front Wheel Ass'y.—Comp. 11.0 x 4.0			725-0464		Ignition Switch (Not Shown) (390A)	
37	711-0169		Collar 5/8" I.D.			725-0267		Ignition Switch (Not Shown) (395A)	
38	710-0666		Sq. Hd. Set Scr. 5/16-18 x .38" Lg.		86	11263		Plastic Handle (390A)	
39	12755 —463		Axle Ass'y.—Front—R.H.		87	731-0144		Vinyl Strip	
40	712-0711		Hex Jam Nut 3/8-24 Thd.		88	736-0242		Belleville Wash. .345 I.D. x .88 O.D.	
41	711-0625		Steering Rod		89	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
42	712-0267		Hex Nut 5/16-18 Thd.*		90	712-0138		Hex Nut 1/4-28 Thd.*	
43	736-0119		L-Wash. 5/16" Scr.*		91	723-0156		Ball Joint Ass'y. 3/8-24 Thd.	
44	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		92	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
45	736-0105		Belleville Wash.		93	710-0216		Hex Scr. 3/8-16 x .75" Lg.*	
46	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		94	736-0119		L-Wash. 3/8" Scr.*	
47	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		95	712-0798		Hex Nut 3/8-16 Thd.*	
48	723-0304		Foot Mat—R.H.		96	712-0344		Speed Nut #10	
49	736-0329		L-Wash. 1/4" Scr.*		97	746-0160		Throttle Control Ass'y.	
					98	710-0351		Truss Mach. B-Tap. Scr. #10 x .50" Lg.	
					99	710-0289		Hex Scr. 1/4-20 x .50" Lg.*	
					100	723-0296		Hood Lock Ass'y.	
					101	736-0329		L-Wash. 1/4" Scr.*	
					102	712-0287		Hex Nut 1/4-20 Thd.*	

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NOTE: If for any reason, disc brake is disassembled, be sure round end of push pins (Ref. No. 72) is toward the cam lever (Ref. No. 71).

PARTS LIST FOR RIDING MOWER MODELS 138-390A AND 138-395A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	712-0429		Hex Ins. Locknut 5/16-18 Thd.		19	710-0201		Hex Hd. Cap Scr. 3/8-16 x .62" Lg.*	
2	10360		Axle Bolt Plate Ass'y.		20	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
3	11011		Disc Brake Brkt. Ass'y.		21	736-0192		Flat Wash. .531 I.D. x .93 O.D.	
4	11024		Deck Link		22	11025		Lockout Link Ass'y.	
5	09721		Pivot Link Ass'y.			11037		Clutch Pedal Ass'y.	
6	11014		Connecting Lift Brkt.		23	12379		Clutch Pedal Pad	
7	09721		Pivot Link Ass'y.		24	710-0442		Hex Hd. Cap Scr. 5/16-18 x 1.50" Lg.*	
8	736-0192		Flat Wash. .531 I.D. x .93 O.D.		25	714-0115		Cotter Pin	
9	714-0101		Int. Cotter Pin 1/2" Dia.		26	714-0115		Cotter Pin	
10	736-0119		L-Wash. 5/16" Scr.*		27	11057		Parking Brake Lever Ass'y. — L.H.	
11	712-0267		Hex Nut 5/16-18 Thd.*		28	11061		Clutch Rod	
12	11249		Ht. Adj. Knob		29	12446		Idler Brkt. Ass'y.	
13	11027		Handle Stop Bracket Ass'y.		30	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
14	712-0429		Hex Ins. L-Nut 5/16-18 Thd.		31	732-0191		Sprg. (Idler) .75 O.D. x 11.0" Lg.	
15	08118		Grip Finger—Black		32	748-0201		Sleeve	
16	749-0212		Lift Handle—R.H.						
17	12397		Lift Handle Brkt. Ass'y.						
18	736-0219		Belleville Wash. .40 I.D. x 1.13 O.D.						

PARTS LIST FOR RIDING MOWER MODELS 138-390A AND 138-395A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
33	735-0180		Rubber Wash.		74	HH-15-02124		Friction Pad 1.110" Dia. x .472 Thk.	
34	713-0104		#41 Chain 1/2 Pitch x 65 Links		75	761-0130		Disc Brake Ass'y.—Comp.	
35	720-0165		Ball Knob		76	710-0176		Hex Hd. Cap Scr. 5/16-18 x 2.75" Lg.	
36	736-0219		Bell. Wash. .400 I.D. x 1.13 O.D.		77	761-0133		Spacer for Disc Brake .322 I.D. x .38	
37	747-0172		Shift Lever		78	11010		Brake Plate	
39	717-0323		Three Speed Trans.—Comp.		79	HH-12-03292		Casting Carrier Side	
40	712-0267		Hex Nut 5/16-18 Thd.*		80	HH-15-03149		Friction Pad 1.110" Dia. x .245 Thk.	
41	747-0107		Brake Rod .25 Dia. x 24.12" Lg.		81	HH-12-03292		Casting Cam Side	
42	11036		Brake Pedal Ass'y.		82	761-0133		Spacer for Disc Brake .322 I.D. x .38	
	10614		Brake Pedal Pad		83	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
43	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*		84	HH-06-03031		Spring	
44	738-0140		Shld. Scr. .431 Dia. x .18" Lg.		85	732-0157		Sprg. .380 O.D. x 3.25 (Brake Return)	
45	732-0245		Brake Spring		86	747-0107		Brake Rod .25 Dia. x 24.12" Lg.	
46	726-0100		Push Nut 3/8" Dia. Rod		87	710-0627		Hex Scr. w/Lock 5/16-24 x .75	
47	12654		Engine Belt Guard Ass'y.		88	736-0242		Bell. Wash. .345 I.D. x .88 O.D.	
48	736-0242		Bell. Wash.		89	734-0521		Rear Wheel Rim Ass'y. Less Tire	
49	738-0215		Shld. Bolt 3.60" Lg.		90	734-0427		Rear Wheel Tire Only 15.0 x 6.0	
50	736-0119		L-Wash. 5/16" Scr.*			734-0524		Rear Wheel Ass'y. w/Tire	
51	712-0267		Hex Nut 5/16-18 Thd.*		99	712-0267		Hex Nut 5/16-18 Thd.*	
52	12160		Belt Keeper Ass'y.		100	736-0119		L-Wash. 5/16" Scr.*	
53	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*		101	748-0151		Flange Brg. w/Flats .753" I.D.	
54	710-0538		Hex Hd. Cap Scr. 5/16-18 x .62 Special		102	748-0151		Flange Brg. w/Flats .753" I.D.	
55	736-0242		Bell. Wash. .345 I.D. x .88 O.D.		103	710-0437		Chain Adj. Link 5/16-18 Thd.	
56	736-0119		L-Wash. 5/16" Scr.*		104	11009		Rear Axle Brkt.	
57	712-0267		Hex Nut 5/16-18 Thd.*		105	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
58	11039		Pedal "U" Brkt. Ass'y.		106	736-0119		L-Wash. 5/16" Scr.*	
59	738-0213		Shld. Bolt .498 Dia. x 1.45		107	712-0267		Hex Nut 5/16-18 Thd.*	
60	10426		Belt Keeper Ass'y.		108	711-0332		Left Brkt. Pin	
62	712-0429		Hex Ins. L-Nut 5/16-18 Thd.		109	738-0140		Shld. Scr. .431 Dia. x .18" Lg.	
63	11056		Parking Brake Lever Ass'y. R.H.		110	710-0201		Hex Hd. Cap Scr. 3/8-16 x .62" Lg.*	
64	712-0287		Hex Nut 1/4-20 Thd.		111	11023		Deck Link Ass'y. (3 Req'd.)	
65	726-0121		Push Cap .25 Dia.		112	732-0157		Sprg. .380 O.D. x 3.25 (Brake Return)	
66	710-0134		Carriage Bolt 1/4-20 x .62" Lg.*		113	735-0126		Rubber Wash. .33 I.D. x .87 O.D.	
67	761-0147		Blade Brake Ass'y.						
68	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*						
69	HH-02-03631		Hex Locknut						
70	HH-03-03032		Washer						
71	HH-18-03493		Cam Lever						
72	HH-05-03034		Push Pin						
73	HH-03-03303		Disc Backup						

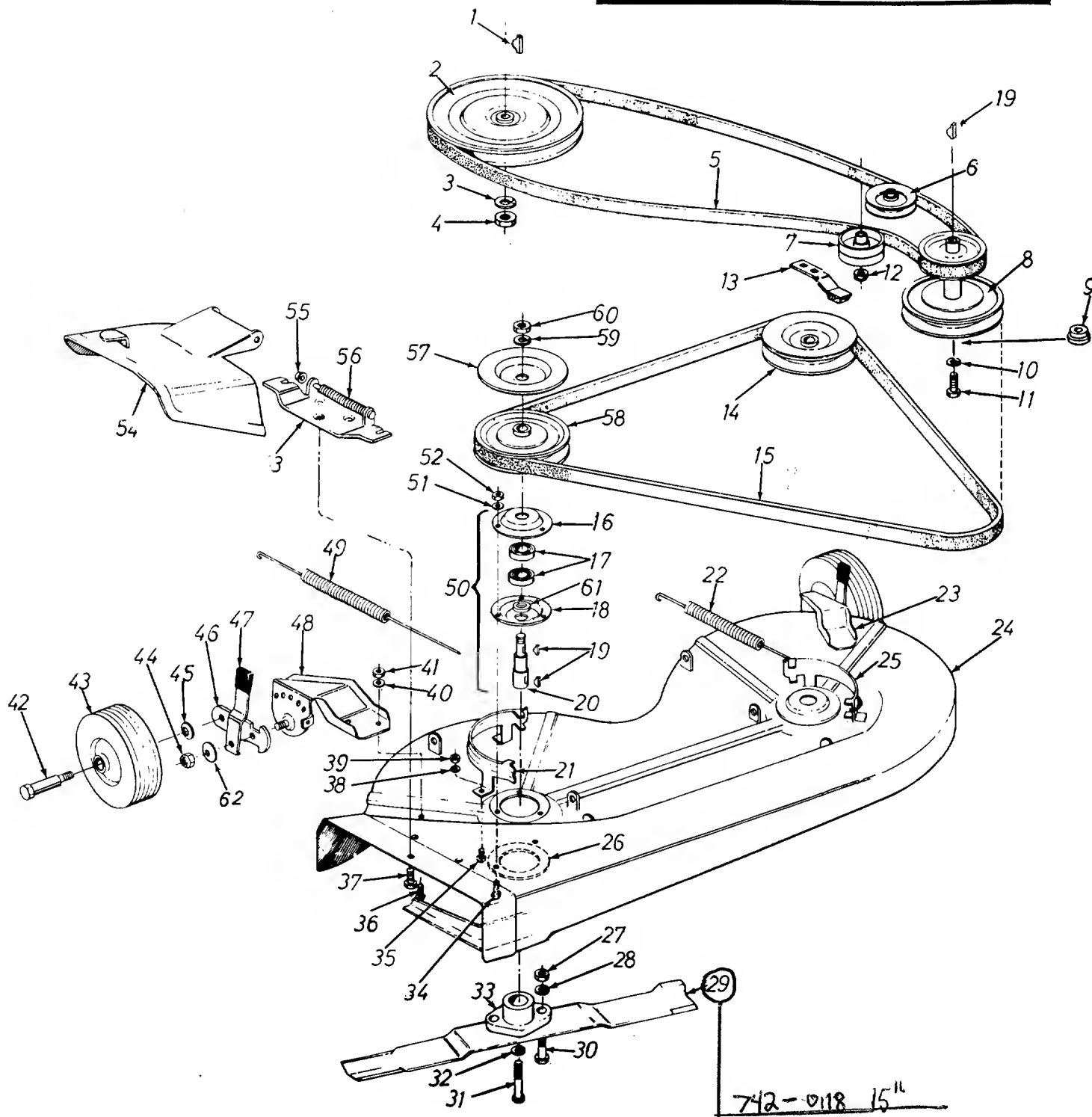
*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on the parts list.

138-390A
138-395A



IMPORTANT

Belts listed by Part Number are of special construction and should be used when replacement is necessary. The dimensions and description given are for general reference only and belts purchased by description and dimension generally will only provide temporary service.



PARTS LIST FOR RIDING MOWER MODELS 138-390A AND 138-395A

REF. NO.	PART NO.	CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	CODE	DESCRIPTION	NEW PART
1	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.		32	736-0217		L-Wash. 3/8" Scr. H.D.	
2	756-0174		Transmission Split Pulley .50 I.D.		33	10769		Blade Adapter Kit	
3	736-0921		L-Wash. 1/2" Scr. *		34	710-0322		Hex Sems Cap Scr. 5/16-18 x 1.00" Lg. * (3 Req'd.)	
4	712-0922		Hex Jam Nut 1/2-20 Thd.		35	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg. *	
5	754-0198		"V" Belt 1/2 x 62" Lg. (Drive Belt)		36	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg. *	
6	756-0116		"V" Idler 3.06 O.D.		37	710-0195		Hex Hd. Cap Scr. 1/4-28 x .62" Lg. (3 Req'd.)	
7	756-0217		"P" Flat Idler 2.75 O.D.		38	736-0329		L-Wash. 1/4" Scr. *	
8	756-0246		Two Step Engine Pulley		39	712-0287		Hex Nut 1/4-20 Thd. *	
9	711-0572		Step Washer for Engine Pulley		40	736-0329		L-Wash. 1/4" Scr. *	
10	736-0217		L-Wash. 3/8" Scr. *		41	712-0287		Hex Nut 1/4-20 Thd. *	
11	710-0151		Hex Hd. Cap Scr. 3/8-24 x 2.00" Lg. *		42	738-0119		Axle Bolt .625 Dia. x 1.75	
12	712-0116		Hex Inserted L-Nut 3/8-24 Thd.		43	734-0225		Wheel Ass'y. — Comp. 6.0" Dia.	
13	761-0147		Blade Brake Assembly		44	712-0116		Hex Inserted L-Nut 3/8-24 Thd.	
14	756-0251		Deck Pulley 4.75 O.D. (2 Req'd.)		45	736-0105		Belleville Wash. .345 I.D. x .88 O.D.	
15	754-0167		"V" Belt 21 / 32 x 64" Lg. (Blade Belt)		46	10937		Wheel Pivot Bar	
16	08253		Housing—Bearing		47	10949		Spring Lever Ass'y. with Knob	
17	741-0919		Ball Brg. .787 I.D. x 1.85 O.D.		48	11236		Wheel Brkt Ass'y. R.H.	
18	08253		Housing—Bearing		49	732-0307		Deck Spring	
19	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.		50	09321		Blade Spindle Ass'y. — Comp.	
20	711-0255		Blade Spindle		51	736-0119		L-Wash. 5/16" Scr. *	
21	12673		Belt Guard R.H. — Deck		52	712-0267		Hex Nut 5/16-18 Thd.	
22	732-0307		Deck Spring		53	11399		Adapter Plate Ass'y.	
23	11237		Wheel Bracket Ass'y. — L.H.		54	11574		Chute Cover Ass'y.	
24	12670		30 In. Deck Assembly		55	726-0106		Push Nut 1/4" Rod	
25	12672		Belt Guard L.H. — Deck		56	732-0261		Torsion Spring	
26	09164		Deck Reinforcement Plate		57	09322		Blade Brake—Disc	
27	712-0123		Hex Nut 5/16-24 Thd. *		58	756-0251		Deck Pulley 4.75 O.D. (2 Req'd.)	
28	736-0119		L-Wash. 5/16" Scr. *		59	736-0158		L-Wash. 5/8" Scr. *	
29	742-0118		15 In. Blade (2 Req'd.)		60	712-0242		Hex Jam Nut 5/8-11 Thd.	
30	710-0117		Hex Hd. Cap Scr. 5/16-24 x 1.00" H.T.		61	736-0287		FI-Wash. .793 I.D. x 1.24 O.D. x .060	
31	710-0459		Hex Hd. Cap Scr. 3/8-24 x 1.50" H.T.		62	736-0219		Bell. Wash.	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

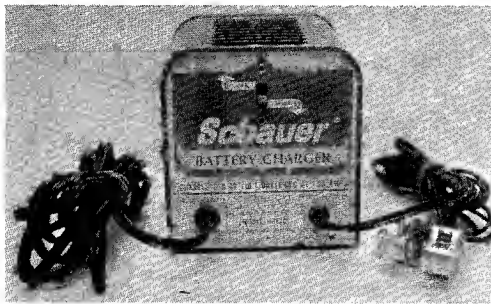
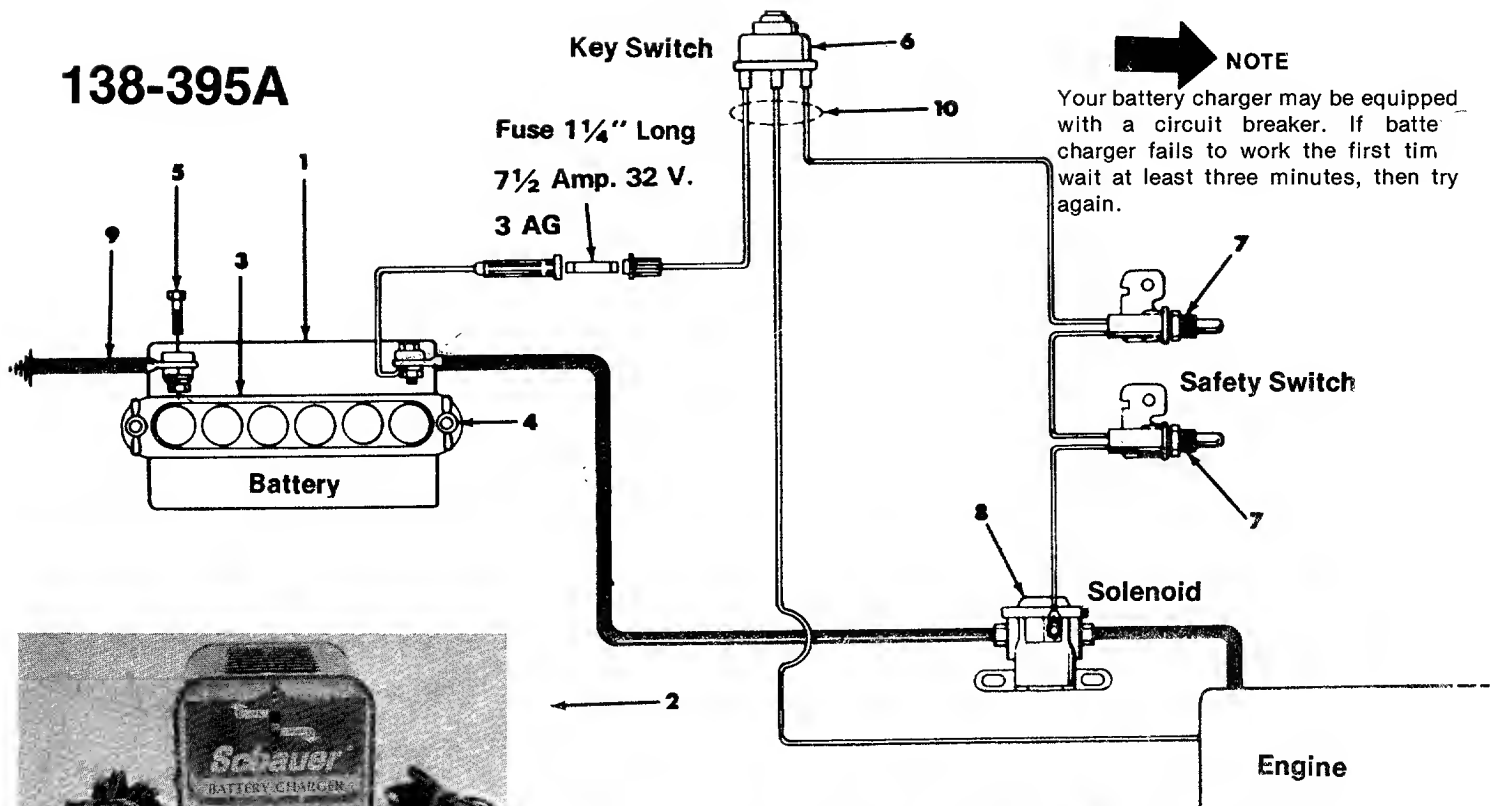
(463—Top Flite Red)

When ordering parts if color or finish is important, use color code shown at left. (e.g. Top Flite Red Finish—11001 (463).)

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."



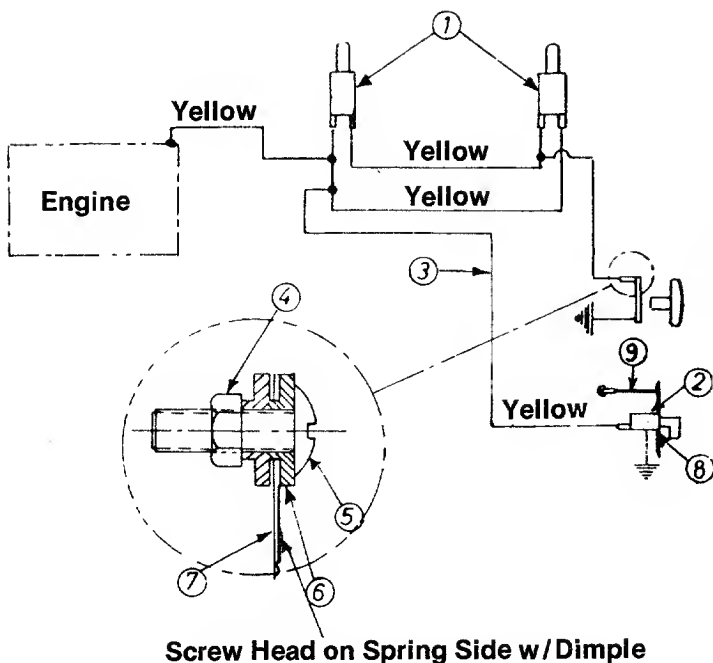
138-395A



PARTS LIST FOR SCHEMATIC MODEL 138-395A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0117		Battery	
2	725-0578		Battery Charger	N
	725-0579		Charger Clip Adapter Wire	N
3	08821		Battery Hold Down	
4	711-0222		Hold Down Rods	
	736-0329		Lockwasher 1/4"	
	712-0113		Wing Nuts 1/4-20 Thd.*	
5	710-0252		Hex Hd. Cap Scr. 1/4-20 x .75 Lg.*	
	736-0329		Lockwasher 1/4"	
	712-0287		Hex Nut 1/4-20 Thd.*	
6	725-0267		Key Switch	
	725-0201		Key	
7	725-0268		Safety Switch	
8	725-0530		Solenoid	
9	725-0150		Ground Wire	
10	725-0489		Wire Harness	
11	725-0221		Electric Wire	
12	725-0297		Electric Wire	

138-390A



PARTS LIST FOR SCHEMATIC MODEL 138-390A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0269		Safety Switch—Red (2 Req'd.)	
2	725-0464		Magneto Ignition Switch w/ Nut	
	725-0128		Ignition Key	
3	725-0272		Wire Harness	
4	712-0121		Hex Nut #10-24	
5	710-0425		Truss Mach. Scr. #10-24 x .62	
6	736-0338		Fiber Washer (2 Req'd.)	
7	732-0257		Switch Spring	
8	736-0225		Internal Lockwasher 5/8 I.D.	
9	725-0297		Ground Wire	

138-390A 138-395A

WHEEL CHART

FRONT WHEEL

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
734-0488 748-0184	Wheel Ass'y. Comp. 11.0 x 4.0 Flange Brg. w/Flats .630" I.D.	734-0524 734-0521 734-0427 734-0255	Wheel Ass'y. Comp. 15.00 x 6.00 Rim Ass'y. with Hub Tire Only Tubeless 15.00 x 6.00 Air Valve

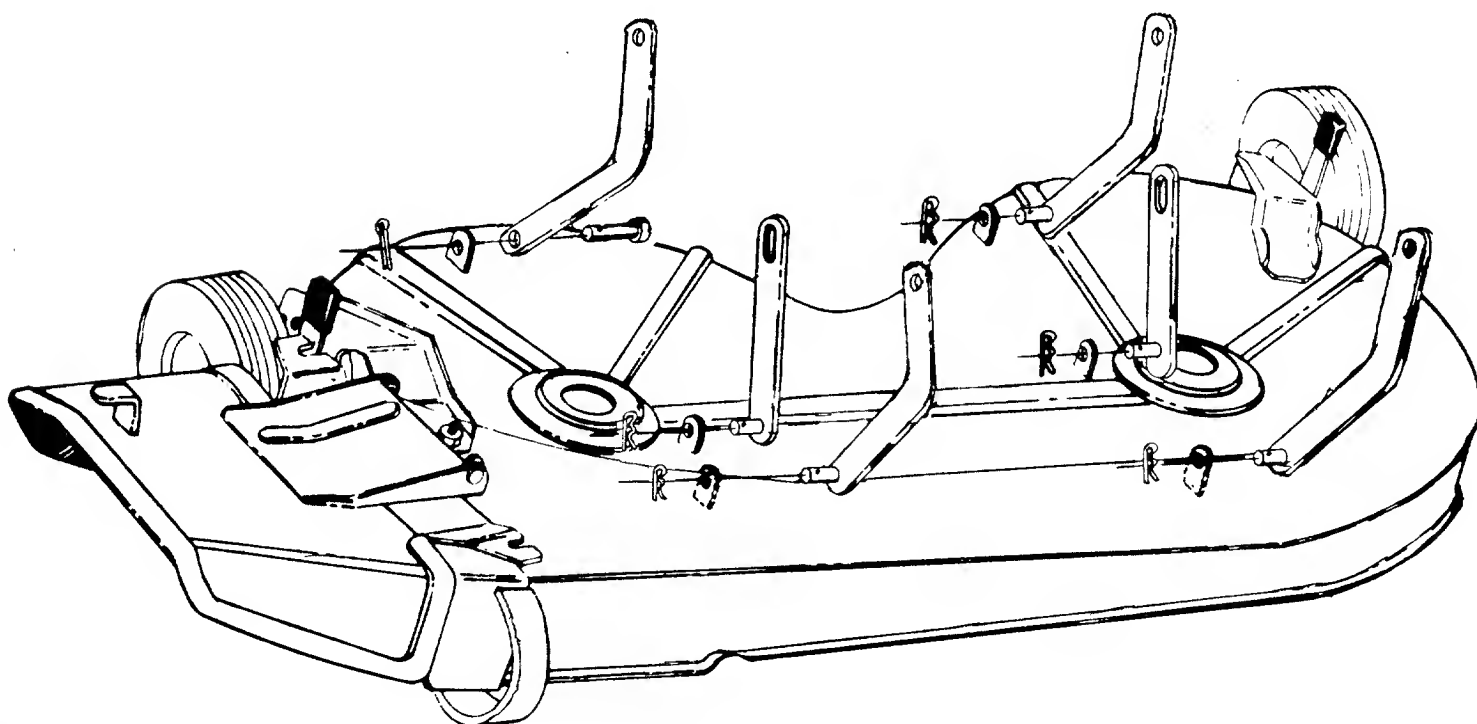
REAR WHEEL

DECK LINKAGE

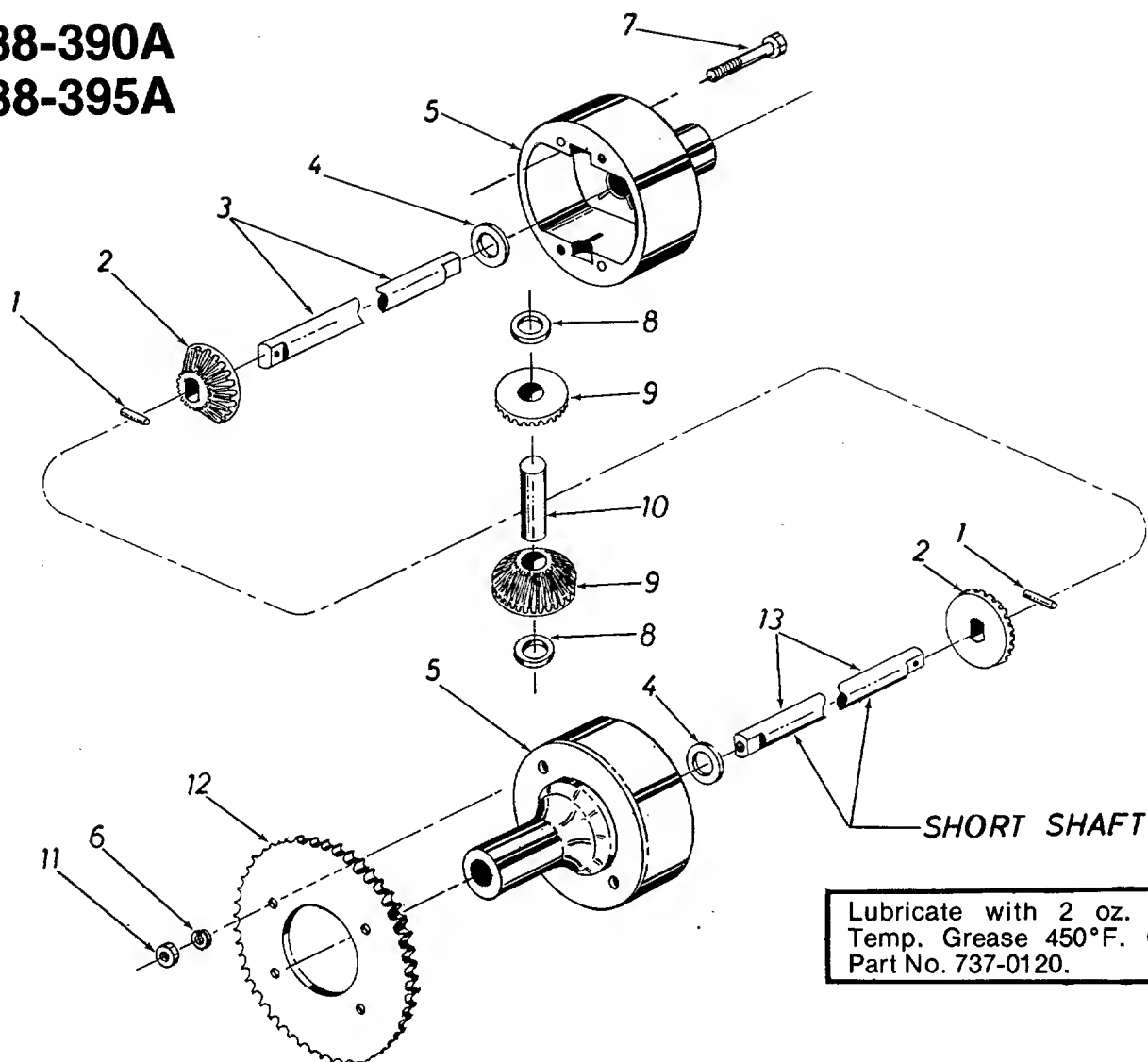


NOTE

Refer to illustration below for proper deck link hook-up. If the deck is removed for any reason use the illustration below for correct assembly.



138-390A 138-395A



Lubricate with 2 oz. High Temp. Grease 450°F. Order Part No. 737-0120.

PARTS LIST FOR DIFFERENTIAL ASSEMBLY 717-0326

Ref. No.	Part No.	Qty. Req'd.	Description	New Part
1	715-0247	2	Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	
2	748-0185	2	Gear—Double "O" Hole	
3	738-0302	1	Shaft—Long 15.11" Lg.	
4	736-0188	2	FI-Wash. .760 I.D. x 1.49 O.D.	
5	717-0341	2	Housing Half	
6	736-0119	2	L-Wash. 5/16" Scr. *	
7	710-0363	2	Hex Scr. 5/16-24 x 4.00" Lg. *	
8	736-0187	2	FI-Wash. .640 I.D. x 1.24 O.D.	
9	748-0158	2	Gear—Round Hole	
10	711-0276	1	Drive Pin	
11	712-0237	2	Hex Cent. L-Nut 5/16-24 Thd.	
12	09054	1	Sprocket—40 Tooth	
13	738-0303	1	Shaft—Short 7.58" Lg.	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts number, description of parts and the quantity of each part required.

ALABAMA	BIRMINGHAM	
Auto Electric & Carburetor Co.	2625 4th Ave. S.	35233
ARKANSAS	NORTH LITTLE ROCK	
Sutton's Lawn Mower Shop	Rt. 4, Box 368	72117
	FORT SMITH	
Mity Mite Motors, Inc.	2515 Towson Ave.	72901
CALIFORNIA	PORTERVILLE	
Billious	75 North D Street	93257
	SAN BERNARDINO	
Lawn Mower Supply Co.	25608 E. Baseline	92410
	SAN FRANCISCO	
J.W. Jewett Co.	981 Folsom St.	94107
	SACRAMENTO	
Luttig & Severson	2030 28th St.	95818
COLORADO	DENVER	
South Denver Lawn Equip.	527 West Evans	80223
CONNECTICUT	SUFFIELD	
The Jones & Ramsey Co.	850 Thompsonville Rd.	06078
FLORIDA	JACKSONVILLE	
Radco Distributors	2403 Market St.	32206
	CORAL GABLES	
Moz-All of Florida, Inc.	365 Greco Ave.	33146
GEORGIA	EAST POINT	
East Point Cycle & Key	2834 Church St.	30344
ILLINOIS	LYONS	
Keen Edge Co.	8615 Ogden Ave.	60534
INDIANA	ELKHART	
Parts & Sales Inc.	2101 Industrial Pkwy.	46514
IOWA	DUBUQUE	
Power Lawn & Garden Equip.	2551 J.F. Kennedy	52001
LOUISIANA	NEW ORLEANS	
Suhren Engine Co.	8330 Earhart Blvd.	70118
MARYLAND	TAKOMA PARK	
Center Supply Co.	6867 New Hampshire Ave.	20012
MASSACHUSETTS	SPRINGFIELD	
Morton B. Collins Co.	300 Birnie Ave.	01107
MICHIGAN	MOUNT CLEMENS	
Power Equipment Dist.	36463 South Gratiot	48043
	LANSING	
Lorenz Service Co.	2500 S. Pennsylvania	48900
MINNESOTA	MINNETONKA	
Hance Distributing Inc.	11212 Wayzata Blvd.	55343
MISSISSIPPI	BILOXI	
Biloxi Sales & Service, Inc.	506 Caillavet St.	39533
MISSOURI	KANSAS CITY	
Automotive Equip. Service	3117 Holmes St.	64109
	ST. LOUIS	
Henzler, Inc.	2015 Lemay Ferry Rd.	63125
NEW JERSEY	BELLMAWR	
Lawnmower Parts Inc.	717 Creek Rd., P.O. Box 7	08030

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NEW YORK	CARTHAGE	
Gamble Dist., Inc.	West End Ave.	13619
NORTH CAROLINA	GREENSBORO	
Dixie Sales Company	327 Battleground Ave.	27402
	GOLDSBORO	
Smith Hardware Co.	515 N. George St.	27530
OHIO	WADSWORTH	
National Central	687 Seville Rd.	44281
	CLEVELAND	
Bleckrie, Inc.	7900 Lorain Ave.	44102
	CARROLL	
Stebe's Mid-State Mower Supply	Box 366	43112
	WILLARD	
Sunshine Wholesale Tire Outlet	Route 224	44890
OKLAHOMA	MUSKOGEE	
Victory Motors, Inc.	605 S. Cherokee	74401
	ADA	
Ada Auto Supply	301 E. 12th St.	74820
OREGON	PORTLAND	
Kenton Supply Co.	8216 N. Denver Ave.	97217
PENNSYLVANIA	LANCASTER	
Raub Supply Co.	James & Mulberry Sts.	17604
	PITTSBURGH	
Bluemont Co.	11125 Frankstown Rd.	15235
TENNESSEE	KNOXVILLE	
Master Repair Service	2423 Broadway, N.E.	37917
	MEMPHIS	
Memphis Cycle & Supply Co.	421 Monroe Ave.	38103
American Sales & Service, Inc.	1922 Lynnbrook	38116
TEXAS	DALLAS	
Marr Brothers, Inc.	423 E. Jefferson	75203
	HOUSTON	
Bullard Supply Co.	2409 Commerce St.	77003
	SAN ANTONIO	
Catto & Putty, Inc.	P.O. Box 2408	78206
	FORT WORTH	
Woodson Sales Corp.	1702 N. Sylvania	76111
UTAH	SALT LAKE CITY	
A-1 Engine & Mower Co.	437 E. 9th St.	84111
VERMONT	BURLINGTON	
Vermont Appliance Co.	44 Lakeside Ave.	05401
VIRGINIA	RICHMOND	
RBI Corp.	963 Myers St.	23260
WASHINGTON	SEATTLE	
Bailey's Rebuild, Inc.	1325 E. Madison St.	98102
WEST VIRGINIA	CHARLESTON	
Young's, Inc.	233 Virginia St., E.	25301
WISCONSIN	APPLETON	
Automotive Supply Co.	123 S. Linwood Ave.	54911

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.